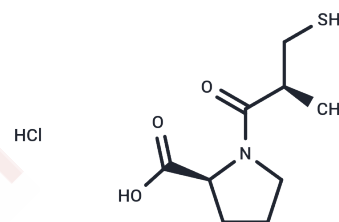


Captopril hydrochloride

Chemical Properties

CAS No. :	198342-23-3
Formula:	C ₉ H ₁₆ ClNO ₃ S
Molecular Weight:	253.74
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Captopril (SQ 14225) hydrochloride is an antihypertensive agent that is a thiol-containing, competitive, orally active angiotensin-converting enzyme (ACE) inhibitor with an IC ₅₀ of 0.025 μM, widely used in hypertension and congestive heart failure research. It is also a New Delhi metallo-β-lactamase-1 (NDM-1) inhibitor with an IC ₅₀ of 7.9 μM [1] [2] [3].
Targets(IC ₅₀)	Others,Angiotensin-converting Enzyme (ACE)
In vitro	Captopril hydrochloride (SQ 14225) offers comparable benefits in reducing morbidity and mortality to diuretics and beta-blockers for treating hypertension. It also slows the progression of diabetic nephropathy, similarly to how enalapril and lisinopril prevent nephropathy onset in normoalbuminuric diabetic patients. Moreover, Captopril hydrochloride exists in solution as an equimolar mixture of cis and trans states, with only the trans state being specifically selected by the enzyme due to its structural and stereochemical match with the enzyme's substrate binding site.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.941 mL	19.7052 mL	39.4104 mL
5 mM	0.7882 mL	3.941 mL	7.8821 mL
10 mM	0.3941 mL	1.9705 mL	3.941 mL
50 mM	0.0788 mL	0.3941 mL	0.7882 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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